

10/532406

JC Rec'd PCT/PTO 22 APR 2005

EX03-079C-US patentin.txt
SEQUENCE LISTING

<110> EXELIXIS, INC.
<120> MAPK7 AS MODIFIER OF BRANCHING MORPHOGENESIS AND METHODS OF USE
<130> EX03-079C-US
<150> US 60/420,554
<151> 2002-10-23
<160> 9
<170> PatentIn version 3.2
<210> 1
<211> 2918
<212> DNA
<213> Homo sapiens

<400> 1
ggacagggca gctcaagacg ctgaggttgt ggctgcggcc tttgaacaag taagttagcc 60
accctcgag accccccgcgc tggggacggg aggccggcga gcctcgggac ctctgaaagc 120
cttggaggagg cgccggggaca ccatggccga gcctctgaag gaggaagacg gcgaggacgg 180
ctctgcggag ccccccgggc ccgtgaaggc cgaacccgcc cacaccgctg cctctgttagc 240
ggccaagaac ctggccctgc ttaaagcccg ctccctcgat gtgaccttg acgtggcga 300
cgagtacgag atcatcgaga ccataggcaa cggggcctat ggagtggtgt cctccgcccc 360
ccgcccgcctc accggccagc aggtggccat caagaagatc cctaattgtt tcgatgttgt 420
gaccaatgcc aagcggaccc tcagggagct gaagatcctc aagcacttta aacacgacaa 480
catcatcgcc atcaaggaca tcctgaggcc caccgtgccc tatggcgaat tcaaattctgt 540
ctacgtggtc ctggacactga tggaaagcga cctgcaccag atcatccact cctcacagcc 600
cctcacactg gaacacgtgc gctacttcct gtaccaactg ctgcggggcc tgaagtacat 660
gcactcggct caggtcatcc accgtgacct gaagccctcc aacctattgg tgaatgagaa 720
ctgtgagctc aagattggtg actttggtat ggctcgtggc ctgtgcaccc cgcccgctga 780
acatcagtagtac ttcatgactg agtatgtggc cacgcgtgg taccgtgcgc ccgagctcat 840
gctcttttg catgagtata cacaggctat tgacctctgg tctgtgggct gcatctttgg 900
tgagatgctg gcccggcgcc agctcttccc aggcaaaaac tatgtacacc agctacagct 960
catcatgatg gtgctggta ccccatcacc agccgtgatt caggctgtgg gggctgagag 1020
ggtgccggcc tatatccaga gcttgccacc acgccagcct gtgcctgg agacagtgtta 1080
cccaggtgcc gaccgccagg ccctatcact gctgggtcgc atgctgcgtt ttgagccag 1140
cgctcgcattc tcagcagctg ctgcccattcg ccacccttc ctggccaagt accatgatcc 1200
tgatgatgag cctgactgtg ccccgccctt tgactttgcc tttgaccgcg aagccctcac 1260

EX03-079C-US patentin.txt

tcgggagcgc attaaggagg ccattgtggc tgaaatttag gacttccatg caaggcgtga	1320
gggcatccgc caacagatcc gcttccagcc ttctctacag cctgtggcta gtgagcctgg	1380
ctgtccagat gttgaaatgc ccagtcctg ggctcccagt ggggactgtg ccatggagtc	1440
tccaccacca gccccgccac catgccccgg ccctgcacct gacaccattg atctgaccct	1500
gcagccacct ccaccagtca gtgagcctgc cccaccaaag aaagatggtg ccatctcaga	1560
caatactaag gctgccccta aagctccct gctcaagtct ttgaggagcc ggctcagaga	1620
tggccccagc gcacccctgg aggctcctga gcctcgaaag ccgggtgacag cccaggagcg	1680
ccagcgggag cgggaggaga agcggcggag gcggcaagaa cgagccaagg agcgggagaa	1740
acggcggcag gagcgggagc gaaaggaacg gggggctggg gcctctggg gcccctccac	1800
tgaccccttg gctggactag tgctcagtga caatgacaga agcctgttg aacgctggac	1860
tcgaatggcc cggccgcag cccagccct cacctctgtg ccggccctg ccccagcgcc	1920
aacgccaacc ccaacccag tccaacctac cagtcctcct cctggccctg tagccagcc	1980
cactggcccg caaccacaat ctgcgggctc tacctctggc cctgtacccc agcctgcctg	2040
cccacccct ggccctgcac cccacccac tggccctcct gggcccatcc ctgtccccgc	2100
gccacccag attgccaccc tcaccagcct cctggctgcc cagtcacttg tgccacccccc	2160
tgggctgcct ggctccagca cccaggagt tttgccttac ttcccacctg gcctgcccgc	2220
cccagacgcc gggggagccc ctcaagtcttc catgtcagag tcacctgatg tcaacttgt	2280
gaccacgcag ctatctaagt cacaggtgga ggacccctg cccctgtgt tctcaggcac	2340
accaaaggc agtggggctg gctacggtgt tggcttgac ctggaggaat tcttaaacca	2400
gtcttcgac atggcgtgg ctgatggcc acaggatggc caggcagatt cagcctct	2460
ctcagcctcc ctgcttgctg actggctcga aggccatggc atgaaccctg ccgatattga	2520
gtccctgcag cgtgagatcc agatggactc cccaatgctg ctggctgacc tgccctgac	2580
ccaggacccc tgaggcccc agcctgtgcc ttgctgccac agtagaccta gttccaggat	2640
ccatgggagc attctcaaag gcttagccc tggacccagc aggtgaggct cggcttggat	2700
tattctgcag gttcatctca gacccacctt tcagccttaa gcagccacct gagccaccac	2760
cgagccatgg caggatcggg agaccccaac tccccctgaa caatccttt cagtattata	2820
tttttattat tattatgtta ttattacact gtcttttgc catcaaaatg aggccctgtga	2880
aataacaaggt tcccttctgc aaaaaaaaaaaaaaaa	2918

<210> 2
<211> 2828
<212> DNA
<213> Homo sapiens

<400> 2

EX03-079C-US patentin.txt

gaattccgga gaccccccgcg ctggggacgg gagggccggcg agcctcgaaa cctctgaaag	60
ccttgaggag gcccgaaaaac accatggccg agcctctgaa ggaggaagac ggcgaggacg	120
gctctgcgga gccccccggcc cgtgaaggtc gaaccggccc acaccgctgc ctctgttagcg	180
ccaagaacct ggccctgctt aaagcccgtc cttcgatgt gaccttgac gtgggcgacg	240
agtacgagat catcgagacc ataggcaacg gggcctatgg agtggtgtcc tccgcccgc	300
gccgcctcac cggccagcag gtggccatca agaagatccc taatgtttc gatgtggta	360
ccaatgccaa gcggaccctc agggagctga agatcctcaa gcactttaaa cacgacaaca	420
tcatcgccat caaggacatc ctgaggccca ccgtcccta tggcgaattc aaatctgtct	480
acgtggtcct ggacctgatg gaaagcgacc tgcaccagat catccactcc tcacagcccc	540
tcacactgga acacgtgcgc tacttcctgt accaactgct gcggggcctg aagtacatgc	600
actcggtca ggtcatccac cgtgacctga agccctccaa cctattggtg aatgagaact	660
gtgagctcaa gattggtgac tttggtatgg ctcgtggcct gtgcacctcg cccgctgaac	720
atcagtactt catgactgag tatgtggcca cgcgctggta ccgtgcgccc gagctcatgc	780
tctcttgca ttagtataca caggctattt acctctggc tgtggctgc atctttggtg	840
agatgctggc ccggcgccag ctctccctag gcaaaaacta tgtacaccag ctacagctca	900
tcatgtggt gctgggtacc ccatcaccag ccgtgattca ggctgtgggg gctgagaggg	960
tgcgggccta tatccagagc ttgccaccac gccagcctgt gccctggag acagtgtacc	1020
caggtgccga ccgcaggcc ctatcactgc tgggtcgcat gctcggttt gagccagcg	1080
ctcgcatctc agcagctgct gcccttcgccc acccttcctt ggccaagtac catgatcctg	1140
atgatgagcc tgactgtgcc ccgcctttt actttgcctt tgaccgcgaa gccctactc	1200
gggagcgcatt aaggaggcc attgtggctg aaattgagga cttccatgca aggctgagg	1260
gcatccgcca acagatccgc ttccagcctt ctctacagcc tgtggctagt gagcctggct	1320
gtccagatgt tggaaatgccc agtccctggg ctcccagtgg ggactgtgcc atggagtctc	1380
caccaccagg cccgccccca tgccccggcc ctgcacctga caccattgat ctgaccctgc	1440
agccacctcc accagtcagt gagcctgcggc caccaaagaa agatggtgcc atctcagaca	1500
atactaaggc tgcccttaaa gctgccctgc tcaagtctt gaggagccgg ctcagagatg	1560
gccccagcgc accccctggag gctcctgagc ctcggaaagcc ggtgacagcc caggagcgcc	1620
agcggggagcg ggaggagaag cggcggaggc ggcaagaacg agccaaggag cgggagaaac	1680
ggcggcagga gcgggagcga aaggaacggg gggctggggc ctctggggc ccctccactg	1740
acccttggc tggacttagtg ctcagtgaca atgacagaag cctgttgaa cgctggactc	1800
aatggccccg gccccagcc ccagccctca cctctgtgcc ggccctgccc ccagcgccaa	1860
cgccaaacccc aacccctagtc caacctacca gtcctcctcc tggccctcta gcccagccca	1920

EX03-079C-US patentin.txt

ctggcccgca accacaatct gcgggctcta cctctggccc tgtaccccaag cctgcctgcc	1980
cacccctgg ccctgcaccc cacccactg gcccctcctgg gccccatccct gtccccgcgc	2040
cacccagat tgccacactcc accagcctcc tggctgcccgtcacttgtg ccacccctg	2100
ggctgcctgg ctccagcacc ccaggagttt tgccttactt cccacctggc ctgcccggcc	2160
cagacgccgg gggagccct cagtcttcca tgtcagagtc acctgatgtc aaccttgta	2220
cccagcagct atctaagtca caggtggagg accccctgcc ccctgtgttc tcagggcacac	2280
caaaggcag tggggctggc tacgggttg gctttgacct ggaggaattc ttAAaccagt	2340
ctttcgacat gggcgtggct gatggccac aggtggcca ggcagattca gcctctctct	2400
cagcctccct gcttgctgac tggctcgaag gccatggcat gaaccctgcc gatattgagt	2460
ccctgcagcg tgagatccag atggactccc caatgctgct ggctgacctg cctgacccctc	2520
aggacccctg aggcccccaag cctgtgcctt gctgccacag tagacctagt tccaggatcc	2580
atgggagcat tctcaaaggc tttagccctg gacccagcag gtgaggctcg gcttggatta	2640
ttctgcaggt tcatctcaga cccacctttc agccttaagc agccacctga gccaccaccg	2700
agccatggca ggatcgggag accccaactc cccctgaaca atccctttca gtattatatt	2760
tttattatata ttatgttatt attacactgt ctttgcatt caaaatgagg cctgtgaaat	2820
acaaggtt	2828

<210> 3
<211> 2746
<212> DNA
<213> Homo sapiens

<400> 3 ggcacgaggc gcgggctccg cagaggagca gaggttggc ggccgcctcg gttaactccg	60
ctgcagccca aagcacggga atcgcgggac agacaaacga gcggaggaa gatacctaga	120
agccaggaaa ccgcgagctg cagtccaaact tggccggaag ctgcggagag gctcagccac	180
cggaaagtca tggagggttc ggccggacgc tctagaatcc cggaggaccg ggatctctgt	240
ggttggccgt gacgggcacc ctctaccggg gatgacacat tcccagagct cctgggacca	300
agcaaattggc ggacacaatt ccctggcgg aaggggactt cgggagccag tagccaagct	360
acgtggtcct ggacctgatg gaaagcgacc tgcaccagat catccactcc tcacagcccc	420
tcacactgga acacgtgcgc tacttcctgt accaactgct gcggggcctg aagtacatgc	480
actcggctca ggtcatccac cgtgacctga agccctccaa cctattggtg aatgagaact	540
gtgagctcaa gattggtgac tttggtatgg ctcgtggcct gtgcacctcg cccgctgaac	600
atcagtactt catgactgag tatgtggcca cgcgctggta ccgtgcgcggc gagctcatgc	660
tctcttgca tgagtataca caggctatttgc acctctggtc tgtggctgc atctttggtg	720

EX03-079C-US patentin.txt

agatgctggc ccggcgccag ctcttcccag gcaaaaacta tgtacaccag ctacagctca	780
tcatgatggt gctgggtacc ccatcaccag ccgtgattca ggctgtgggg gctgagaggg	840
tgcgggccta tatccagagc ttgccaccac gccagcctgt gccctggag acagtgtacc	900
caggtgccga ccgccaggcc ctatcaactgc tgggtcgcat gctgcgttt gagcccagcg	960
ctcgcatctc agcagctgct gcccttcgccc acccttcctt ggccaagtac catgatcctg	1020
atgatgagcc tgactgtgcc ccgcctttg actttgcctt tgaccgcgaa gccctcactc	1080
gggagcgcataaggaggcc atttgtggctg aaattgagga cttccatgca aggcgtagg	1140
gcatccgcca acagatccgc ttccagcctt ctctacagcc tgtggctagt gagcctggct	1200
gtccagatgt tgaaatgccc agtccctggg ctcccagtgg ggactgtgcc atggagtctc	1260
caccaccagc cccgcccacca tgccccggcc ctgcacctga caccattgat ctgaccctgc	1320
agccacctcc accagtcagt gagcctgccc caccaaagaa agatggtgcc atctcagaca	1380
atactaaggc tgcccttaaa gctgccctgc tcaagtcttt gaggagccgg ctcagagatg	1440
gccccagcgc accccctggag gctccctgagc ctcggaaagcc ggtgacagcc caggagcgcc	1500
agcgggagcg ggaggagaag cggcggaggc ggcaagaacg agccaaggag cgggagaaac	1560
ggcggcagga gcggggagcga aaggaacggg gggctggggc ctctggggc ccctccactg	1620
acccttggc tggacttagtg ctcagtgaca atgacagaag cctgttgaa cgctggactc	1680
gaatggcccg gcccgcagcc ccagccctca cctctgtgcc ggccctgccc ccagcgc当地	1740
cgccaaacccc aacccctagtc caacctacca gtcctcctcc tggccctgta gcccagccca	1800
ctggcccgca accacaatct gcgggctcta cctctggccc tgtacccctag cctgcctgccc	1860
caccccttgg ccctgcaccc cacccactg gccccttgg gcccattccct gtcccccgc当地	1920
cacccctagat tgccacccctcc accagccctcc tggctgccc gtcacttgatg ccacccctg	1980
ggctgcctgg ctccagcacc ccaggagttt tgccttactt cccacctggc ctgccc当地	2040
cagacgcccgg gggagccct cagtcttcca tgtcagatgc acctgatgtc aaccttgc当地	2100
cccagcagct atctaagtca caggtggagg accccctgcc ccctgtgttc tcaggcacac	2160
caaagggcag tggggctggc tacgggttg gctttgaccc ggaggaattc ttaaaccatg	2220
ctttcgacat gggcgtggct gatgggccac aggtggcca ggcagattca gcctctctct	2280
cagcctccct gcttgctgac tggctcgaag gccatggcat gaaccctgccc gatattgagt	2340
ccctgcagcg ttagatccag atggactccc caatgctgt ggctgacccctg cctgaccc	2400
aggacccctg aggccccccag cctgtgcctt gctgccacag tagacccctag tccaggatcc	2460
atgggagcat tctcaaaggc tttagccctg gacccagcag gtgaggctcg gcttggatta	2520
ttctgcaggt tcatctcaga cccacccccc agccttaagc agccacccctga gccc当地	2580

EX03-079C-US patentin.txt

agccatggca ggatcgggag accccaactc cccctgaaca atcctttca gtattatatt	2640
tttattatta ttatgttatt attacactgt cttnn gccaaatgag gcctgtgaaa	2700
tacaagggttc ccttctgcaa aaaaaaaaaa aaaaaaaaaa aaaaaaa	2746

<210> 4
<211> 2746
<212> DNA
<213> Homo sapiens

<400> 4	
ggcacgaggc gcgggctccg cagaggagca gaggttggc ggccgcctcg gttaactccg	60
ctgcagccca aagcacggga atcgcggac agacaaacga gcggaggaa gatacctaga	120
agccaggaaa ccgcgagctg cagtccaaact tggccggaag ctgcggagag gctcagccac	180
cggaaagtca g tggagggttc ggccggacgc tctagaatcc cggaggaccg ggatctctgt	240
ggttggccgt gacgggcacc ctctaccggg gatgacacat tcccagagct cctggacca	300
agcaaatggc ggacacaatt ccctggcgg aaggggactt cgggagccag tagccaagct	360
acgtggtcct ggacctgatg gaaagcgacc tgaccaggat catccactcc tcacagcccc	420
tcacactgga acacgtgcgc tacttcctgt accaactgct gcggggcctg aagtacatgc	480
actcggctca ggtcatccac cgtgacctga agccctccaa cctattggtg aatgagaact	540
gtgagctcaa gattggtgac tttggtatgg ctcgtggcct gtgcacctcg cccgctgaac	600
atcagtactt catgactgag tatgtggcca cgcgctggta ccgtgcgccc gagctcatgc	660
tctcttgca ttagtataca caggctattg acctctggc tgtggctgc atctttggtg	720
agatgctggc ccggcgccag ctctccag gcaaaaacta tgtacaccag ctacagctca	780
tcatgatggc gctgggtacc ccatcaccag ccgtgattca ggctgtgggg gctgagaggg	840
tgcgggccta tatccagagc ttgccaccac gccagcctgt gccctggag acagtgtacc	900
caggtgccga ccgccaggcc ctatcactgc tgggtcgcat gctgcgttt gagcccagcg	960
ctcgcatctc agcagctgct gcccttcgccc acccttcct ggccaagtac catgatcctg	1020
atgatgagcc tgactgtgcc ccgcctttg actttgcctt tgaccgcga gcccactc	1080
gggagcgcatt taaggaggcc atttgtggctg aaattgagga cttccatgca aggctgtgagg	1140
gcatccgcca acagatccgc ttccagcctt ctctacagcc tgtggctagt gagcctggct	1200
gtccagatgt tggaaatgccc agtccctggg ctcccagtgg ggactgtgcc atggagtctc	1260
caccaccaggc cccgccacca tgccccggcc ctgcacctga caccattgat ctgaccctgc	1320
agccacctcc accagtcagt gagcctgccc caccaaaagaa agatggtgcc atctcagaca	1380
atactaaggc tgcccttaaa gctgccctgc tcaagtctt gaggagccgg ctcagagatg	1440
gccccagcgc accccctggag gctcctgagc ctcggaagcc ggtgacagcc caggagcgcc	1500

EX03-079C-US patentin.txt

agcgggagcg ggaggagaag cggcggaggc ggcaagaacg agccaaggag cgggagaaac	1560
ggccgcagga gcgggagcga aaggaacggg gggctgggc ctctggggc ccctccactg	1620
acccttggc tggacttagtg ctcagtgaca atgacagaag cctgttgaa cgctggactc	1680
aatggcccgc gcccgcagcc ccagccctca cctctgtgcc ggccctgtcc ccagcgccaa	1740
cgcacccccc aacccccatgc caacctacca gtcctcctcc tggccctgtta gcccagccca	1800
ctggcccgca accacaatct gcgggctcta cctctggccc tgtaccccg cctgcctgcc	1860
caccccttgg ccctgcaccc cacccactg gccctcctgg gcccatccct gtccccgcgc	1920
cacccagat tgccacctcc accagcctcc tggctgccc gtcacttgtg ccacccctg	1980
ggctgcctgg ctccagcacc ccaggagttt tgccttactt cccacctggc ctgcccgc	2040
cagacgcccgg gggagccct cagtcttcca tgtcagatgc acctgatgtc aaccttgta	2100
cccaagcagct atctaagtca caggtggagg accccctgcc ccctgtgttc tcaggcacac	2160
caaagggcag tggggctggc tacggtgttgc ttgcgttgcgttggatcc ttaaaccagt	2220
ctttcgacat gggcgtggct gatggccac agatggcca ggcagattca gcctctct	2280
cagcctccct gcttgctgac tggctcgaag gccatggcat gaaccctgtcc gatattgagt	2340
ccctgcagcg tgagatccag atggactccc caatgctgttgcgttggatcc	2400
aggacccctg aggcccccaag cctgtgcctt gctgccacag tagacctagt tccaggatcc	2460
atgggagcat tctcaaaggc tttagccctg gacccagcag gtgaggctcg gcttggatta	2520
ttctgcaggt tcatactcaga cccacccccc agccttaagc agccacccatgatggatcc	2580
agccatggca ggatcgggag accccaaactc cccctgaaca atccctttca gtattatatt	2640
tttattatata ttatgttatt attacactgt ctgtttgttccatcaaaaatgag gcctgtgaaa	2700
tacaagggttc cttcttgcaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa	2746

<210> 5
 <211> 2892
 <212> DNA
 <213> Homo sapiens

<400> 5 ggcacgaggc ggccttggaa caagtaagtgcg agccaccctc ggagacccccc gcgctgggaa	60
cgggaggccg gcgagcctcg ggacctctga aagccttgcgttgg gaggcgcggg gacaccatgg	120
ccgagcctctt gaaggaggaa gacggcgagg acggctctgc ggagcccccc gggccctgttgcgttgg	180
aggccgaacc cggccacacc gctgcctctg tagcggccaa gaacctggcc ctgttgcgttgg	240
cccgctccctt cgatgtgacc tttgacgtgg gcgacgagta cgagatcatc gagaccatag	300
gcaacggggc ctatggagtg gtgtcctccg cccgcccggc cctcaccggc cagcaggtgg	360
ccatcaagaa gatccctaat gctttcgatg tggtgaccaa tgccaagcgg accctcaggg	420

EX03-079C-US patentin.txt

agctgaagat cctcaaggcac	tttaaacacg acaacatcat	cgccatcaag gacatcctga	480
ggcccaccgt gccctatggc	gaattcaa at ctgtctacgt	ggtcctggac ctgatggaaa	540
gcgacctgca ccagatcatc	cactcctcac agcccctcac	actggaacac gtgcgctact	600
tcctgtacca actgctgcgg	ggcctgaagt acatgcactc	ggctcaggtc atccaccgtg	660
acctgaagcc ctccaaccta	ttggtgaatg agaactgtga	gctcaagattt ggtgactttg	720
gtatggctcg tggcctgtgc	acctcgcccg ctgaacatca	gtacttcatg actgagttatg	780
tggccacgcg ctggtaccgt	gcgccc gagc tcatgctc	tttgcatttgc tatacacagg	840
ctattgacct ctggctgtg	ggctgcatct ttggtgagat	gctggcccg cgccagctct	900
tcccaggcaa aaactatgt	caccagctac agctcatcat	gatggtgctg ggtacccat	960
caccagccgt gattcaggct	gtggggctg agagggtgcg	ggcctatatac cagagcttgc	1020
caccacgcca gcctgtgcc	tggagacag tgtacccagg	tgccgaccgc caggccatat	1080
cactgctggg tcgcatgctg	cgtttgagc ccagcgctcg	catctcagca gctgctgccc	1140
ttcgccaccc tttcctggcc	aagtaccatg atcctgatga	tgagcctgac tgtgccccgc	1200
cctttgactt tgcccttgac	cgcgaagccc tcactcggga	gcmcattaag gaggccattt	1260
tggctgaaat tgaggacttc	catgcaaggc gtgagggcat	ccgccaacag atccgcttcc	1320
agccttctct acagcctgtg	gctagtgagc ctggctgtcc	agatgttcaa atgcccagtc	1380
cctggctcc cagtggggac	tgtgccatgg agtctccacc	accagccccg ccaccatgcc	1440
ccggccctgc acctgacacc	attgatctga ccctgcagcc	acctccacca gtcagtgagc	1500
ctgccccacc aaagaaagat	ggtccatct cagacaatac	taaggctgcc cttaaagctg	1560
ccctgctcaa gtcttgagg	agccggctca gagatggccc	cagcgcaccc ctggaggctc	1620
ctgagcctcg gaagccggtg	acagcccagg agcgcagcg	ggagcgggag gagaagcggc	1680
ggaggcggca agaacgagcc	aaggagcggg agaaacggcg	gcaggagcgg gagcgaaagg	1740
aacggggggc tggggcctct	gggggcccct ccactgaccc	cttggctgga ctagtgctca	1800
gtgacaatga cagaagcctg	ttggAACGCT ggactcgaat	ggccggccc gcagccccag	1860
ccctcacctc tggccggcc	cctgccccag cgccaaacgccc	aaccccaacc ccagtccaaac	1920
ctaccagtcc tcctcctggc	cctgttagccc agcccactgg	cccgcacca caatctgcgg	1980
gctctacctc tggccctgta	ccccagcctg cctgcccacc	ccctggccct gcacccacc	2040
ccactggccc tcctggccc	atccctgtcc ccgcgcaccc	ccagattgcc acctccacca	2100
gcctcctggc tgcccagtca	cttgcaccc cccctgggct	gcctggctcc agcaccagg	2160
gagtttgcc ttacttccca	cctggcctgc cgccccaga	cgccggggga gcccctcagt	2220
cttccatgtc agagtcaccc	gatgtcaacc ttgtgaccca	gcagctatct aagtcacagg	2280
tggaggaccc cctgccccct	gtgttctcag gcacacaaa	ggcagtggg gctggctacg	2340

EX03-079C-US patentin.txt

gtgttggctt tgacctggag gaattcttaa accagtcttt cgacatgggc gtggctgatg	2400
ggccacagga tggccaggca gattcagcct ctctctcagc ctccctgctt gctgactggc	2460
tcgaaggcca tggcatgaac cctgccata ttgagtcct gcagcgttag atccagatgg	2520
actccccat gctgctggct gacctgcctg acctccagga cccctgaggc ccccagcctg	2580
tgccttgctg ccacagtaga cctagttcca ggatccatgg gagcattctc aaaggctta	2640
gccctggacc cagcaggtga ggctcggtt ggattattct gcaggttcat ctcagaccca	2700
cctttcagcc ttaaggcagcc acctgagcca ccaccgagcc atggcaggat cgggagaccc	2760
caactcccc tgaacaatcc ttttcagtat tatattttta ttattattat gttattatta	2820
cactgtctt ttgccatcaa aatgaggcct gtgaaataca aggtccctt ctgaaaaaaa	2880
aaaaaaaaaa aa	2892

<210> 6
<211> 2826
<212> DNA
<213> Homo sapiens

<400> 6	
cggagacccc cgcgctgggg acgggaggcc ggcgagcctc gggacctctg aaagccttga	60
ggaggcgcgg ggacaccatg gccgagcctc tgaaggagga agacggcag gacggctctg	120
cggagccccc cgggcccgtg aaggccgaac ccgcccacac cgctgcctct gtagcggcca	180
agaacctggc cctgcttaaa gcccgcctt tcgatgtac ctttgacgtg ggcgacgagt	240
acgagatcat cgagaccata ggcaacgggg cctatggagt ggtgtcctcc gcccggcc	300
gcctcaccgg ccagcaggtg gccataaaa agatccctaa tgcttcgtat gtggtgacca	360
atgccaagcg gaccctcagg gagctgaaga tcctcaagca ctttaaacac gacaacatca	420
tcgccccatcaa ggacatcctg aggcccaccc tgccctatgg cgaattcaaa tctgtctacg	480
tggccttggaa cctgatggaa agcgacctgc accagatcat ccactcctca cagccctca	540
cactggaaaca cgtgcgctac ttccctgtacc aactgctgcg gggcctgaag tacatgcact	600
cggctcaggt catccaccgt gacctgaagc cctccaccc attggtaat gagaactgtg	660
agctcaagat tggtgacttt ggtatggctc gtggcctgtg cacctcgccc gctgaacatc	720
agtacttcat gactgagttat gtggccacgc gctggtaccg tgccggcag ctcatgcct	780
ctttgcataat gatacacatg gctattgacc tctggtctgt gggctgcac tttggtgaga	840
tgctggcccg ggcgcagctc ttcccaggca aaaactatgt acaccagcta cagctcatca	900
tgatggtgct gggtaaaaaa tcaccagccg tgattcaggc tgtggggct gagagggtgc	960
gggcctatata ccagagcttgc accaccacgc agcctgtgcc ctgggagaca gtgtacccag	1020
gtgccgaccg ccaggcccta tcactgctgg gtcgcataatgcgatgtgcgatgtttgag cccagcgtc	1080

EX03-079C-US patentin.txt

gcatctcagc agctgctgcc	1140
cttcgccacc ctttcctggc	
caagtaccat gatcctgatg	
atgagcctga ctgtgccccg	1200
cccttgact ttgccttga	
ccgcgaagcc ctcactcggg	
agcgcatataa ggaggccatt	1260
gtggctgaaa ttgaggactt	
ccatgcaagg cgtgagggca	
tccgccaaca gatccgcttc	1320
cagccttctc tacagcctgt	
ggctagttag cctggctgtc	
cagatgtta aatgcccagt	1380
ccctgggctc ccagtggga	
ctgtccatg gagtctccac	
caccagcccc gccaccatgc	1440
cccggccctg cacctgacac	
cattgatctg accctgcagc	
cacccccc agtcagttag	1500
cctgccccac caaaagaaaga	
tggtgccatc tcagacaata	
ctaaggctgc ccttaaagct	1560
gccctgctca agtcttgag	
gagccggctc agagatggcc	
ccagcgcacc cctggaggct	1620
cctgagcctc ggaagccgt	
gacagcccag gagcgcac	
gggagcggga ggagaagcgg	1680
cggaggcggc aagaacgagc	
caaggagcgg gagaaacggc	
ggcaggagcg ggagcgaaag	1740
gaacgggggg ctggggcctc	
tgggggcccc tccactgacc	
ccttggctgg actagtgc	1800
tc agtgcataatg acagaagcct	
gttggAACGC tggactcgaa	
tggcccccgc cgcaaaaaa	1860
ccctcacct ctgtccggc	
ccctgccccca gcgcacac	
caacccaaac cccagtccaa	1920
cctaccagtc ctcccttgg	
ccctgttagcc cagccactg	
ccccgcaacc acaatctgcg	1980
ggctctaccc ctggccctgt	
accccagcct gcctgcccac	
ccccctggccc tgcacccac	2040
cccactggcc ctccctggcc	
catccctgtc cccgcgcac	
ccccagattgc cacctccacc	2100
agccttctgg ctgcccagtc	
acttgtgcca cccctggc	
tgcctggctc cagcacccca	2160
ggagtttgc cttacttccc	
acctggcctg ccgcggccag	
acgcccgggg agcccctcag	2220
tcttccatgt cagagtcacc	
tgtatgtcaac cttgtgaccc	
agcagctatc taagtcacag	2280
gtggaggacc ccctgcccc	
tgtgttctca ggcacaccaa	
agggcagtgg ggctggctac	2340
ggtgttggct ttgacctgga	
ggaattctta aaccagtctt	
tcgacatgg cgtggctgat	2400
gggccacagg atggccaggc	
agattcagcc tctctctcag	
cctccctgtc tgctgactgg	2460
ctcgaaggcc atggcatgaa	
ccctgccgat attgagtccc	
tgcagcgtga gatccagatg	2520
gactcccaa tgctgctggc	
tgacctgcct gacctccagg	
accccctgagg ccccccagc	2580
gtgccttgct gccacagtag	
acctagttcc aggatccatg	
ggagcattct caaaggcttt	2640
agccctggac ccagcaggtg	
aggctcggct tggattattc	
tgcaggttca tctcagaccc	2700
acctttcagc cttaagcagc	
cacctgagcc accaccgagc	
catggcagga tcgggagacc	2760
ccaactcccc ctgaacaatc	
ctttcagta ttatatttt	
attattatta tgttattatt	2820
acactgtctt tttgcacatca	
aatgaggcc tgtgaaatac	
aaggtt	2826

EX03-079C-US patentin.txt

<211> 3113
<212> DNA
<213> Homo sapiens

<400> 7

cgcgggctcc	gcagaggagc	agaggttggg	cggccgcctc	ggttaactcc	gctgcagccc	60
aaagcacggg	aatcgccggg	cagacaaacg	agcggaggga	agataacctag	aagccaggaa	120
accgcgagct	gcagtccaac	ttggccggaa	gctgcggaga	ggctcagcca	ccggaagtca	180
gtggagggtt	cggccggacg	ctctagaatc	ccggaggacc	ggatctctg	tggttggccg	240
tgacgggcac	cctctaccgg	ggatgacaca	ttcccaagagc	tcctgggacc	aagcaaattgg	300
cggacacaat	tccctgggcg	gaaggggact	tcgggagcca	gtagccaaga	caccatggcc	360
gagcctctga	aggaggaaga	cggcgaggac	ggctctgcgg	agccccccgg	gcccgtaag	420
gtcgaacccg	cccacaccgc	tgcctctgt	gcggccaaga	acctggccct	gcttaaagcc	480
cgctccctcg	atgtgacctt	tgacgtggc	gacgagtacg	agatcatcga	gaccataggc	540
aacggggcct	atggagtgg	gtcctccgcc	cggccggcc	tcaccggcca	gcaggtggcc	600
atcaagaaga	tccctaattgc	tttcgatgt	gtgaccaatg	ccaagcggac	cctcaggag	660
ctgaagatcc	tcaagactt	taaacacgac	aacatcatcg	ccatcaagga	catcctgagg	720
cccaccgtgc	cctatggcga	attcaaatct	gtctacgtgg	tcctggacct	gatggaaagc	780
gacctgcacc	agatcatcca	ctcctcacag	cccctcacac	tggAACACGT	gcgctacttc	840
ctgtaccaac	tgctgcgggg	cctgaagtac	atgcactcgg	ctcaggtcat	ccaccgtgac	900
ctgaagccct	ccaacctatt	ggtgaatgag	aactgtgagc	tcaagattgg	tgacttttgt	960
atggctcg	gcctgtgcac	ctcgcccgct	gaacatcagt	acttcatgac	tgagtatgt	1020
gccacgcgct	ggtaccgtgc	gcccggagctc	atgctcttt	tgcatacgta	tacacaggct	1080
attgacctct	ggtctgtggg	ctgcatctt	ggtgagatgc	tggccggcg	ccagctcttc	1140
ccaggcaaaa	actatgtaca	ccagctacag	ctcatcatga	tggtgctggg	tacccatca	1200
ccagccgtga	ttcaggctgt	gggggctgag	agggtgcggg	cctatatcca	gagcttgcca	1260
ccacgcccagc	ctgtgcctg	ggagacagt	tacccaggt	ccgaccgcca	ggcccttatca	1320
ctgctgggtc	gcatgctgc	tttgagccc	agcgctcgca	tctcagcagc	tgctgcctt	1380
cgccaccctt	tcctggccaa	gtaccatgat	cctgatgat	agcctgactg	tggccggccc	1440
tttgactttg	ccttgaccg	cgaagccctc	actcgggagc	gcattaagga	ggccatttgt	1500
gctgaatttg	aggacttcca	tgcaaggcgt	gagggcatcc	gccaacagat	ccgcttcag	1560
ccttctctac	agcctgtggc	tagttagcct	ggctgtccag	atgttgaat	gcccagtccc	1620
tgggctccca	gtggggactg	tgccatggag	tctccaccac	cagccccgcc	accatgcccc	1680
ggccctgcac	ctgacaccat	tgatctgacc	ctgcagccac	ctccaccagt	cagtgagcct	1740

EX03-079C-US patentin.txt

gccccaccaa	agaaagatgg	tgccatctca	gacaatacta	aggctgcctt	taaagctgcc	1800
ctgctcaagt	ctttgaggag	ccggctcaga	gatggccca	gcgcacccct	ggaggctcct	1860
gagcctcgga	agccgggtgac	agcccaggag	cgcagcggg	agcgggagga	gaagcggcgg	1920
aggcggcaag	aacgagccaa	ggagcgggag	aaacggcggc	aggagcggga	gcgaaaggaa	1980
cggggggctg	gggcctctgg	ggcccttc	actgaccctt	tggctggact	agtgctcagt	2040
gacaatgaca	gaagcctgtt	ggaacgctgg	actcgaatgg	cccggccgc	agccccagcc	2100
ctcacctctg	tgccggccccc	tgccccagcg	ccaacgccaa	ccccaacccc	agtccaaacct	2160
accagtcctc	ctccctggccc	tgttagccag	cccactggcc	cgcaaccaca	atctgcgggc	2220
tctacctctg	gccctgtacc	ccagcctgcc	tgcccacccc	ctggccctgc	accccacccc	2280
actggccctc	ctggggccat	ccctgtcccc	gcgccacccc	agattgccac	ctccaccagc	2340
ctcctggctg	cccagtcact	tgtgccaccc	cctggctgc	ctggctccag	caccccaagga	2400
gtttgcctt	acttcccacc	tggcctgccg	ccccagacg	ccgggggagc	ccctcagtct	2460
tccatgtcag	agtcacactga	tgtcaacctt	gtgaccacgc	agctatctaa	gtcacaggtg	2520
gaggacccccc	tgccccctgt	gttctcaggc	acaccaaagg	gcagtggggc	tggctacgg	2580
gttggctttg	acctggagga	attcttaaac	cagtcttcg	acatggcgt	ggctgatgg	2640
ccacaggatg	gccaggcaga	ttcagcctct	ctctcagcct	ccctgcttgc	tgactggctc	2700
gaaggccatg	gcatgaaccc	tgccgatatt	gagtccctgc	agcgtgagat	ccagatggac	2760
tccccaatgc	tgctggctga	cctgcctgac	ctccaggacc	cctgaggccc	ccagcctgtg	2820
ccttgctgcc	acagtagacc	tagttccagg	atccatggga	gcattctcaa	aggctttagc	2880
cctggaccca	gcaggtgagg	ctcggcttgg	attattctgc	aggttcatct	cagacccacc	2940
tttcagcctt	aagcagccac	ctgagccacc	accgagccat	ggcaggatcg	ggagacccca	3000
actccccctg	aacaatcctt	ttcagtatta	tattttatt	attattatgt	tattattaca	3060
ctgtctttt	gccccataaaa	tgaggcctgt	gaaatacaag	gttcccttct	gca	3113

<210> 8
 <211> 2813
 <212> DNA
 <213> Homo sapiens

<400> 8	ggacagggca	gctcaagacg	ctgaggtggt	ggctgcggcc	tttgaacaaa	caccatggcc	60
	gagcctctga	aggaggaaga	cggcgaggac	ggctctgcgg	agccccccgg	gcccgtgaag	120
	gtcgaacccg	cccacaccgc	tgcctctgt	gcggccaaga	acctggccct	gcttaaagcc	180
	cgtcccttcg	atgtgacctt	tgacgtggc	gacgagtacg	agatcatcga	gaccataggc	240
	aacggggcct	atggagtgg	gtcctccgcc	cggccggcc	tcaccggcca	gcaggtggcc	300

EX03-079C-US patentin.txt

atcaagaaga tccctaattgc tttcgatgtg gtgaccaatg ccaagcggac cctcaggag	360
ctgaagatcc tcaagcactt taaacacgac aacatcatcg ccatcaagga catcctgagg	420
cccaccgtgc cctatggcga attcaaattct gtctacgtgg tcctggacct gatggaaagc	480
gacctgcacc agatcatcca ctccctcacag cccctcacac tggaacacgt gcgcatactc	540
ctgtaccaac tgctgcgggg cctgaagtac atgcactcgg ctcaaggcat ccaccgtgac	600
ctgaagccct ccaacctatt ggtgaatgag aactgtgagc tcaagattgg tgacttttgt	660
atggctcgtg gcctgtgcac ctgcggcgt gaacatcaatg acttcatgac tgagtatgt	720
gccacgcgc ggtaccgtgc gcccggcgtc atgctcttt tgcatgagta tacacaggct	780
attgacctct ggtctgtggg ctgcattttt ggtgagatgc tggccggcg ccagctttc	840
ccaggcaaaa actatgtaca ccagctacag ctcatcatga tggtgctggg taccatca	900
ccagccgtga ttcaggctgt gggggctgag agggtgcggg cctatatcca gagcttgcca	960
ccacgcgcagc ctgtgcctg ggagacagtg taccagggtg ccgaccgcca gcccstatca	1020
ctgctgggtc gcatgctgcg tttttagcccc agcgctcgca tctcagcagc tgctgcctt	1080
cggcaccctt tcctggccaa gtaccatgat cctgatgatg agcctgactg tgcccccggc	1140
tttgacttttgc cttttagccg cgaaggccctc actcgggagc gcattaagga ggccatttg	1200
gctgaaatttgc aggacttcca tgcaaggcgt gagggcatcc gccaacagat ccgcttccag	1260
ccttctctac agcctgtggc tagtgacccct ggctgtccag atgtgaaat gcccagtccc	1320
tgggctccca gtggggactg tgccatggag tctccaccac cagcccccgc accatgcccc	1380
ggccctgcac ctgacaccat tgatctgacc ctgcagccac ctccaccaggc cagtgagcct	1440
gccccaccaa agaaagatgg tgccatctca gacaatacta aggctgccc taaagctgcc	1500
ctgctcaagt cttttagggag ccggctcaga gatggccca ggcacccct ggaggctcct	1560
gagcctcgga agccgggtgac agcccaggag cgccagcggg agcgggagga gaagcggcgg	1620
aggcggcaag aacgagccaa ggagcgggag aaacggcggc aggagcggga gcgaaaggaa	1680
cggggggctg gggcctctgg gggccctcc actgaccct tggctggact agtgcgtcagt	1740
gacaatgaca gaagcctgtt ggaacgctgg actcgaatgg cccggccgc agccccagcc	1800
ctcacctctg tgccggccccc tgccctcgcc ccaacgccaa ccccaacccc agtccaaacct	1860
accagtcctc ctccctggccc tgtagccctgg cccactggcc cgcaaccaca atctgcgggc	1920
tctacccctg gccctgtacc ccagcctgccc tgccctccctc ctggccctgc accccacccc	1980
actggccctc ctggggccat ccctgtcccc ggcgcaccc agattgccac ctccaccaggc	2040
ctccctggctg cccagtcact tgtgccaccc cctggctgc ctggctccag cacccacgg	2100
gttttgccctt acttcccacc tggcctgccc ccccccagacg ccgggggagc ccctcagtct	2160
tccatgtcag agtcacccatgttgtcaacctt gtgacccagc agctatctaa gtcacagggtg	2220

EX03-079C-US patentin.txt

gaggacccccc	tgccccctgt	gttctcaggc	acaccaaagg	gcagtggggc	tggctacggt	2280
gttggcttg	acctggagga	attcttaaac	cagtcttcg	acatgggcgt	ggctgatggg	2340
ccacaggatg	gccaggcaga	ttcagcctct	ctctcagcct	ccctgcttgc	tgactggctc	2400
gaaggccatg	gcatgaaccc	tgccgatatt	gagtccctgc	agcgtgagat	ccagatggac	2460
tccccaatgc	tgctggctga	cctgcctgac	ctccaggacc	cctgaggccc	ccagcctgtg	2520
ccttgctgcc	acagtagacc	tagtccagg	atccatggg	gcattctcaa	aggctttagc	2580
cctggaccca	gcaggtgagg	ctcggtttgg	attattctgc	aggttcatct	cagacccacc	2640
tttcagcctt	aagcagccac	ctgagccacc	accgagccat	ggcaggatcg	ggagacccca	2700
actccccctg	aacaatcctt	ttcagtatta	tattttatt	attattatgt	tattattaca	2760
ctgtctttt	gccatcaaaa	tgaggcctgt	gaaatacaag	gttcccttct	gca	2813

<210> 9

<211> 815

<212> PRT

<213> Homo sapiens

<400> 9

Met Ala Glu Pro Leu Lys Glu Glu Asp Gly Glu Asp Gly Ser Ala Glu
1 5 10 15

Pro Pro Ala Arg Glu Gly Arg Thr Arg Pro His Arg Cys Leu Cys Ser
20 25 30

Ala Lys Asn Leu Ala Leu Leu Lys Ala Arg Ser Phe Asp Val Thr Phe
35 40 45

Asp Val Gly Asp Glu Tyr Glu Ile Ile Glu Thr Ile Gly Asn Gly Ala
50 55 60

Tyr Gly Val Val Ser Ser Ala Arg Arg Arg Leu Thr Gly Gln Gln Val
65 70 75 80

Ala Ile Lys Lys Ile Pro Asn Ala Phe Asp Val Val Thr Asn Ala Lys
85 90 95

Arg Thr Leu Arg Glu Leu Lys Ile Leu Lys His Phe Lys His Asp Asn
100 105 110

Ile Ile Ala Ile Lys Asp Ile Leu Arg Pro Thr Val Pro Tyr Gly Glu
115 120 125

Phe Lys Ser Val Tyr Val Val Leu Asp Leu Met Glu Ser Asp Leu His
130 135 140

EX03-079C-US patentin.txt

Gln Ile Ile His Ser Ser Gln Pro Leu Thr Leu Glu His Val Arg Tyr
145 150 155 160

Phe Leu Tyr Gln Leu Leu Arg Gly Leu Lys Tyr Met His Ser Ala Gln
165 170 175

Val Ile His Arg Asp Leu Lys Pro Ser Asn Leu Leu Val Asn Glu Asn
180 185 190

Cys Glu Leu Lys Ile Gly Asp Phe Gly Met Ala Arg Gly Leu Cys Thr
195 200 205

Ser Pro Ala Glu His Gln Tyr Phe Met Thr Glu Tyr Val Ala Thr Arg
210 215 220

Trp Tyr Arg Ala Pro Glu Leu Met Leu Ser Leu His Glu Tyr Thr Gln
225 230 235 240

Ala Ile Asp Leu Trp Ser Val Gly Cys Ile Phe Gly Glu Met Leu Ala
245 250 255

Arg Arg Gln Leu Phe Pro Gly Lys Asn Tyr Val His Gln Leu Gln Leu
260 265 270

Ile Met Met Val Leu Gly Thr Pro Ser Pro Ala Val Ile Gln Ala Val
275 280 285

Gly Ala Glu Arg Val Arg Ala Tyr Ile Gln Ser Leu Pro Pro Arg Gln
290 295 300

Pro Val Pro Trp Glu Thr Val Tyr Pro Gly Ala Asp Arg Gln Ala Leu
305 310 315 320

Ser Leu Leu Gly Arg Met Leu Arg Phe Glu Pro Ser Ala Arg Ile Ser
325 330 335

Ala Ala Ala Ala Leu Arg His Pro Phe Leu Ala Lys Tyr His Asp Pro
340 345 350

Asp Asp Glu Pro Asp Cys Ala Pro Pro Phe Asp Phe Ala Phe Asp Arg
355 360 365

Glu Ala Leu Thr Arg Glu Arg Ile Lys Glu Ala Ile Val Ala Glu Ile
370 375 380

Glu Asp Phe His Ala Arg Arg Glu Gly Ile Arg Gln Gln Ile Arg Phe
Page 15

EX03-079C-US_patentin.txt

385

390

395

400

Gln Pro Ser Leu Gln Pro Val Ala Ser Glu Pro Gly Cys Pro Asp Val
405 410 415

Glu Met Pro Ser Pro Trp Ala Pro Ser Gly Asp Cys Ala Met Glu Ser
420 425 430

Pro Pro Pro Ala Pro Pro Pro Cys Pro Gly Pro Ala Pro Asp Thr Ile
435 440 445

Asp Leu Thr Leu Gln Pro Pro Pro Val Ser Glu Pro Ala Pro Pro
450 455 460

Lys Lys Asp Gly Ala Ile Ser Asp Asn Thr Lys Ala Ala Leu Lys Ala
465 470 475 480

Ala Leu Leu Lys Ser Leu Arg Ser Arg Leu Arg Asp Gly Pro Ser Ala
485 490 495

Pro Leu Glu Ala Pro Glu Pro Arg Lys Pro Val Thr Ala Gln Glu Arg
500 505 510

Gln Arg Glu Arg Glu Glu Lys Arg Arg Arg Arg Gln Glu Arg Ala Lys
515 520 525

Glu Arg Glu Lys Arg Arg Gln Glu Arg Glu Arg Lys Glu Arg Gly Ala
530 535 540

Gly Ala Ser Gly Gly Pro Ser Thr Asp Pro Leu Ala Gly Leu Val Leu
545 550 555 560

Ser Asp Asn Asp Arg Ser Leu Leu Glu Arg Trp Thr Arg Met Ala Arg
565 570 575

Pro Ala Ala Pro Ala Leu Thr Ser Val Pro Ala Pro Ala Pro Ala Pro
580 585 590

Thr Pro Thr Pro Thr Pro Val Gln Pro Thr Ser Pro Pro Pro Gly Pro
595 600 605

Leu Ala Gln Pro Thr Gly Pro Gln Pro Gln Ser Ala Gly Ser Thr Ser
610 615 620

Gly Pro Val Pro Gln Pro Ala Cys Pro Pro Pro Gly Pro Ala Pro His
625 630 635 640

EX03-079C-US patentin.txt
Pro Thr Gly Pro Pro Gly Pro Ile Pro Val Pro Ala Pro Pro Gln Ile
645 650 655

Ala Thr Ser Thr Ser Leu Leu Ala Ala Gln Ser Leu Val Pro Pro Pro
660 665 670

Gly Leu Pro Gly Ser Ser Thr Pro Gly Val Leu Pro Tyr Phe Pro Pro
675 680 685

Gly Leu Pro Pro Pro Asp Ala Gly Gly Ala Pro Gln Ser Ser Met Ser
690 695 700

Glu Ser Pro Asp Val Asn Leu Val Thr Gln Gln Leu Ser Lys Ser Gln
705 710 715 720

Val Glu Asp Pro Leu Pro Pro Val Phe Ser Gly Thr Pro Lys Gly Ser
725 730 735

Gly Ala Gly Tyr Gly Val Gly Phe Asp Leu Glu Glu Phe Leu Asn Gln
740 745 750

Ser Phe Asp Met Gly Val Ala Asp Gly Pro Gln Asp Gly Gln Ala Asp
755 760 765

Ser Ala Ser Leu Ser Ala Ser Leu Leu Ala Asp Trp Leu Glu Gly His
770 775 780

Gly Met Asn Pro Ala Asp Ile Glu Ser Leu Gln Arg Glu Ile Gln Met
785 790 795 800

Asp Ser Pro Met Leu Leu Ala Asp Leu Pro Asp Leu Gln Asp Pro
805 810 815